

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/538,922
Source: IFWP
Date Processed by STIC: 08/14/2006

ENTERED



IFWP

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/538,922

DATE: 08/14/2006

TIME: 13:35:18

Input Set : A:\10-538,922 Sequence Listing.TXT

Output Set: N:\CRF4\08142006\J538922.raw

3 <110> APPLICANT: CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE
5 <120> TITLE OF INVENTION: METHOD OF DIAGNOSIS OF OBESITY
7 <130> FILE REFERENCE: Q88618
9 <140> CURRENT APPLICATION NUMBER: US 10/538,922
10 <141> CURRENT FILING DATE: 2005-06-13
12 <150> PRIOR APPLICATION NUMBER: EP 02 293 085
13 <151> PRIOR FILING DATE: 2002-12-13
15 <160> NUMBER OF SEQ ID NOS: 15
17 <170> SOFTWARE: PatentIn Ver. 2.1
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 1758
21 <212> TYPE: DNA
22 <213> ORGANISM: Homo sapiens
24 <220> FEATURE:
25 <223> OTHER INFORMATION: gad2 gene
27 <400> SEQUENCE: 1
28 atggcatctc cgggctctgg ctttggtct ttcgggtcgg aagatggctc tggggattcc 60
29 gagaatcccc gcacagcgcg agcctggtgc caagtggctc agaagttcac gggccggcatc 120
30 ggaaacaaac tgtgcgcct gctctacgga gacgccgaga agccggcggg gagcggcggg 180
31 agccaacccc cgccggccgc cgccccgaaag gccgcctgcg cctgcgacca gaagccctgc 240
32 agctgctcca aagtggatgt caactacgct tttctccatg caacagacct gctgccggcg 300
33 tgtatggag aaaggccac ttggcggtt ctgcaagatg ttatgaacat ttacttcag 360
34 tatgtggta aaagtttca tagatcaacc aaagtgattt attccattt tcctaattttag 420
35 cttctccaag aataataattt ggaatttggca gaccaaccac aaaatttggg gaaaattttt 480
36 atgcattgcc aaacaactct aaaatatgca attaaaacag ggcacccctag atacttcaat 540
37 caactttcta ctggtttggaa tatggttggaa tttagcagcag actggctgac atcaacagca 600
38 aatactaaca tgttcaccta tgaaaatttgc ccagtattt tgcttttggaa atatgtcaca 660
39 ctaaaagaaaa tgagagaaaat cattggctgg ccagggggct ctggcgatgg gatattttct 720
40 cccggtgccg ccatatctaa catgtatgcc atgatgatcg cacgcctttaa gatgttccca 780
41 gaagtcaagg agaaaggaaat ggctgctt cccaggctca ttgccttac gtctgaacat 840
42 agtcatttt ctctcaagaa gggagctgca gcctttagggaa ttggAACAGA cagcgtgatt 900
43 ctgattaaat gtgatgagag aggaaaatg attccatctg atcttggaaag aaggattttt 960
44 gaagccaaac agaaagggtt tgccctt ctcgtgatgt ccacagctgg aaccaccgtg 1020
45 tacggagcat ttgaccctt cttagctgtc gctgacattt gcaaaaagta taagatctgg 1080
46 atgcattgtgg atgcagctt ggggggggaa ttactgtatgt cccgaaaaca caagtggaaa 1140
47 ctgagtgccg tggagaggc caactctgtc acgtggaatc cacacaagat gatggagtc 1200
48 ccttgcagt gctctgcctt cctgggtttaga gaagaggat tgatgcagaa ttgcacccaa 1260
49 atgcattgtgg cttacctt tcagcaagat aaacattatg acctgtccca tgacacttgg 1320
50 gacaaggcct tacagtgcgg acgccacgtt gatgtttta aactatggct gatgtggagg 1380
51 gcaaaggaaa ctaccgggtt tgaagcgcat gttgataaaat gttggagttt ggcagagtt 1440
52 ttatacaaca tcataaaaaaa ccgagaagga tatgagatgg tggatgtgg gaaacccatc 1500
53 cacacaaatg tctgtttctg gtacatttcc ccaagcttgc gtactctggaa agacaatgaa 1560
54 gagagaatga gtcgcctctc gaaggtggct ccagtqatta aagccagaat gatggagtt 1620

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/538,922

DATE: 08/14/2006

TIME: 13:35:18

Input Set : A:\10-538,922 Sequence Listing.TXT
 Output Set: N:\CRF4\08142006\J538922.raw

55 ggaaccacaa tggtcagcta ccaacccttg ggagacaagg tcaatttctt ccgcattggc 1680
 56 atctcaaacc cagcgcaac tcaccaagac attgacttcc tgattgaaga aatagaacgc 1740
 57 cttggacaag atttataa 1758
 60 <210> SEQ ID NO: 2
 61 <211> LENGTH: 2382
 62 <212> TYPE: DNA
 63 <213> ORGANISM: Homo sapiens
 65 <220> FEATURE:
 66 <223> OTHER INFORMATION: 5' flanking region of gad2 gene nucleotides
 68 <220> FEATURE:
 69 <223> OTHER INFORMATION: R = G or A
 71 <220> FEATURE:
 72 <223> OTHER INFORMATION: Y = T or C
 74 <220> FEATURE:
 75 <223> OTHER INFORMATION: M = A or C
 77 <220> FEATURE:
 78 <223> OTHER INFORMATION: W = A or T
 80 <220> FEATURE:
 81 <223> OTHER INFORMATION: S = G or C
 83 <400> SEQUENCE: 2
 84 gaaaaaaaaa tcagttaaat tcaggtgttt taatccgttt cttctttggg ggttttgtgt 60
 85 gatttaaacg ttgccttta agaaccttta tgtttcaac cactcatcca tagtagaaaa 120
 86 gttctgcaac cctagactgc tggcttgaag gaaaaccttt gcaggattt atatggattt 180
 87 caacaaagaa ccagccctcg cgaggcttggg gagagctgcg gagctgccat gcctgaagt 240
 88 cagatggctg aaccacaagt cttaggttt ccggagttgt tattgtgggt acctagatgt 300
 89 tcagagccag gagagaaga aagaggagcc aaactgagcc ctgagtttc gaccacccgg 360
 90 gctcccacag cctggwacag acttcaccta gcacgctcag tgccagccctt cggcaggacg 420
 91 ctatcaacgc ccgactggwt tcytgctctc atcctggcgc ctggggcccaag ttgcctatgt 480
 92 gtggatccca tgactcctca gggAACCCCT ggactcaggc acgcgagaag aagacagcgc 540
 93 tttgtggaga gaattgacca gggacagtta tgctcagca cacaggactt gggcctgtat 600
 94 gctccagca tggggcccaag gatgtccctt ctaagcgagg gtcgagggtt gctcggccag 660
 95 acgggatccc cgggtctctg cttaggttgc agcttgggt gctggttcag gaggtcagag 720
 96 aaataaaaacg acttgtgaac acaatggaaa tgacaggcgc tctggccagg cgcggggaa 780
 97 gcagccgcct cgggaagccg acctcagccc ttccctctt ctccctccctt ccgtctcccc 840
 98 cagagccccc gagctccgag gtgcacttga agttcatctc cactgccagg agaacgcgc 900
 99 gcaaactgtc aaagggtctcc caatccttag ggcgtctcc ctgtctgaa tagctttt 960
 100 tagaaaaggaa atcatcagaa mgattctgac ttctcttcc ttctttatt agaaaaagag 1020
 101 aaaccgcctc ctaataacgcc tcagagagaa ccaatctgc gcttccgggt caccgcgtac 1080
 102 cgcgaagatt ctctgggggc gagggggggc attgggttga agccccctaa aacgaggggcc 1140
 103 ctgcaggcga tgccttctt cctactcggg tttgtaaagc cgagattgt tagttggaaa 1200
 104 ccctgttctc ccctcccaagg cgcacacaga tcccccttac acgcaaggcag cggcgcttc 1260
 105 cacgcctccg cgggccaagg tcaccaaattt ccctgattcc atccccccacc cgcctaat 1320
 106 cctgcccact ctggccgctc tgcctcatcc tcttccaaga agttccatt cgttttattt 1380
 107 tttttcccccc agcccggatgt cctcagtaga ctccagctg gattttattt gcctcaatca 1440
 108 gcagtcattt tccccagccg tcactcagag cctggacgggt gggtcccggc atctagccct 1500
 109 tggctacgca ggaacgggtgc gccccccgggt acggcgccgt tcagcaggca ggcgtcagg 1560
 110 totacccaagg cgctgaaatg agccccatcag cgggttaggag ccctccccc gccgtcccc 1620
 111 cccccaggctc gtgaacggcg cctgatgccc gccccggcg cgagctctcg aggtcgcagt 1680
 112 gacctcagca cctgcttggg gaaaaacggc gcgggaaccc cgcttccttc ccctcagctg 1740

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/538,922

DATE: 08/14/2006
TIME: 13:35:18

Input Set : A:\10-538,922 Sequence Listing.TXT
Output Set: N:\CRF4\08142006\J538922.raw

113 gagccagacc tcaaacaaaa ccccaatcga tgcacacaga aaactcctct gggccacgct 1800
 114 tccccctcg ccgaggtctc cccagtctgc ccctcgctga cgctggcgcg cagcsgctgt 1860
 115 ggcagcaccc gggacagcgg cccggccac ttcccgccc tggctcgccc gaggacgcgc 1920
 116 tggcacgcct cccacccctt cactctgact ccagctggcg tgcattgtct gcctcgcatc 1980
 117 ctcacgactc agctccctcc ctctctcgta ttttttctt ccgcgccttc ctcatc 2040
 118 cccactgggc tcccttccc tcaaatactgc tggggctctc cgcgccttcc tgagtccggg 2100
 119 ctccgaggac ctttaggtag tcccggtctc ttttaargct ccccggttcc caaagggttg 2160
 120 ccacgtccct aaaccctgtc tccagctcgat atacacacac gcacagacac gcacgttttc 2220
 121 tgttctcgctg tgacacccgc cctcgccgt cggccccgct ggtccccgctg cggtgccctc 2280
 122 ctcccgccac acgggcacgc acgcgcgcgc agggccaagc cggaggcagc tcgccccgag 2340
 123 ctgcactcg caggcagacct gctccagtc ccaaagccga tg 2382
 126 <210> SEQ ID NO: 3
 127 <211> LENGTH: 519
 128 <212> TYPE: PRT
 129 <213> ORGANISM: Homo sapiens
 131 <220> FEATURE:
 132 <223> OTHER INFORMATION: DNA-binding protein Ikaros (Lymphoid transcription factor
 133 LyF-1)
 135 <400> SEQUENCE: 3
 136 Met Asp Ala Asp Glu Gly Gln Asp Met Ser Gln Val Ser Gly Lys Glu
 137 1 5 10 15
 139 Ser Pro Pro Val Ser Asp Thr Pro Asp Glu Gly Asp Glu Pro Met Pro
 140 20 25 30
 142 Ile Pro Glu Asp Leu Ser Thr Thr Ser Gly Gly Gln Gln Ser Ser Lys
 143 35 40 45
 145 Ser Asp Arg Val Val Ala Ser Asn Val Lys Val Glu Thr Gln Ser Asp
 146 50 55 60
 148 Glu Glu Asn Gly Arg Ala Cys Glu Met Asn Gly Glu Glu Cys Ala Glu
 149 65 70 75 80
 151 Asp Leu Arg Met Leu Asp Ala Ser Gly Glu Lys Met Asn Gly Ser His
 152 85 90 95
 154 Arg Asp Gln Gly Ser Ser Ala Leu Ser Gly Val Gly Gly Ile Arg Leu
 155 100 105 110
 157 Pro Asn Gly Lys Leu Lys Cys Asp Ile Cys Gly Ile Ile Cys Ile Gly
 158 115 120 125
 160 Pro Asn Val Leu Met Val His Lys Arg Ser His Thr Gly Glu Arg Pro
 161 130 135 140
 163 Phe Gln Cys Asn Gln Cys Gly Ala Ser Phe Thr Gln Lys Gly Asn Leu
 164 145 150 155 160
 166 Leu Arg His Ile Lys Leu His Ser Gly Glu Lys Pro Phe Lys Cys His
 167 165 170 175
 169 Leu Cys Asn Tyr Ala Cys Arg Arg Asp Ala Leu Thr Gly His Leu
 170 180 185 190
 172 Arg Thr His Ser Val Gly Lys Pro His Lys Cys Gly Tyr Cys Gly Arg
 173 195 200 205
 175 Ser Tyr Lys Gln Arg Ser Ser Leu Glu Glu His Lys Glu Arg Cys His
 176 210 215 220
 178 Asn Tyr Leu Glu Ser Met Gly Leu Pro Gly Thr Leu Tyr Pro Val Ile
 179 225 230 235 240

RAW SEQUENCE LISTING DATE: 08/14/2006
PATENT APPLICATION: US/10/538,922 TIME: 13:35:18

Input Set : A:\10-538,922 Sequence Listing.TXT
Output Set: N:\CRF4\08142006\J538922.raw

```

181 Lys Glu Glu Thr Asn His Ser Glu Met Ala Glu Asp Leu Cys Lys Ile
182           245          250          255
184 Gly Ser Glu Arg Ser Leu Val Leu Asp Arg Leu Ala Ser Asn Val Ala
185           260          265          270
187 Lys Arg Lys Ser Ser Met Pro Gln Lys Phe Leu Gly Asp Lys Gly Leu
188           275          280          285
190 Ser Asp Thr Pro Tyr Asp Ser Ser Ala Ser Tyr Glu Lys Glu Asn Glu
191           290          295          300
193 Met Met Lys Ser His Val Met Asp Gln Ala Ile Asn Asn Ala Ile Asn
194 305           310          315          320
196 Tyr Leu Gly Ala Glu Ser Leu Arg Pro Leu Val Gln Thr Pro Pro Gly
197           325          330          335
199 Gly Ser Glu Val Val Pro Val Ile Ser Pro Met Tyr Gln Leu His Lys
200           340          345          350
202 Pro Leu Ala Glu Gly Thr Pro Arg Ser Asn His Ser Ala Gln Asp Ser
203           355          360          365
205 Ala Val Glu Asn Leu Leu Leu Ser Lys Ala Lys Leu Val Pro Ser
206           370          375          380
208 Glu Arg Glu Ala Ser Pro Ser Asn Ser Cys Gln Asp Ser Thr Asp Thr
209 385           390          395          400
211 Glu Ser Asn Asn Glu Glu Gln Arg Ser Gly Leu Ile Tyr Leu Thr Asn
212           405          410          415
214 His Ile Ala Pro His Ala Arg Asn Gly Leu Ser Leu Lys Glu Glu His
215           420          425          430
217 Arg Ala Tyr Asp Leu Leu Arg Ala Ala Ser Glu Asn Ser Gln Asp Ala
218           435          440          445
220 Leu Arg Val Val Ser Thr Ser Gly Glu Gln Met Lys Val Tyr Lys Cys
221           450          455          460
223 Glu His Cys Arg Val Leu Phe Leu Asp His Val Met Tyr Thr Ile His
224 465           470          475          480
226 Met Gly Cys His Gly Phe Arg Asp Pro Phe Glu Cys Asn Met Cys Gly
227           485          490          495
229 Tyr His Ser Gln Asp Arg Tyr Glu Phe Ser Ser His Ile Thr Arg Gly
230           500          505          510
232 Glu His Arg Phe His Met Ser
233           515
236 <210> SEQ ID NO: 4
237 <211> LENGTH: 20
238 <212> TYPE: DNA
239 <213> ORGANISM: Artificial Sequence
241 <220> FEATURE:
242 <223> OTHER INFORMATION: Chemically synthesized Primer to amplify SNP - 243
244 <400> SEQUENCE: 4
245 cctcaaatgc tctggggctc                               20
248 <210> SEQ ID NO: 5
249 <211> LENGTH: 20
250 <212> TYPE: DNA
251 <213> ORGANISM: Artificial Sequence
253 <220> FEATURE:

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/538,922

DATE: 08/14/2006

TIME: 13:35:18

Input Set : A:\10-538,922 Sequence Listing.TXT
Output Set: N:\CRF4\08142006\J538922.raw

254 <223> OTHER INFORMATION: Chemically synthesized Primer to amplify SNP - 243
256 <400> SEQUENCE: 5
257 ggtgtcacgc aggaacagaa 20
260 <210> SEQ ID NO: 6
261 <211> LENGTH: 23
262 <212> TYPE: DNA
263 <213> ORGANISM: Artificial Sequence
265 <220> FEATURE:
266 <223> OTHER INFORMATION: Chemically synthesized Primer to amplify SNP - 243
268 <400> SEQUENCE: 6
269 gtctctttta aagctccccc gct 23
272 <210> SEQ ID NO: 7
273 <211> LENGTH: 28
274 <212> TYPE: DNA
275 <213> ORGANISM: Artificial Sequence
277 <220> FEATURE:
278 <223> OTHER INFORMATION: Chemically synthesized Primer to amplify SNP - 243
280 <400> SEQUENCE: 7
281 cgggctccga ggacccttag gtagtccc 28
285 <210> SEQ ID NO: 8
286 <211> LENGTH: 17
287 <212> TYPE: DNA
288 <213> ORGANISM: Artificial Sequence
290 <220> FEATURE:
291 <223> OTHER INFORMATION: Chemically synthesized Primer to amplify SNP - 1.6 kb
293 <400> SEQUENCE: 8
294 ctgaggcgta ttaggag 17
297 <210> SEQ ID NO: 9
298 <211> LENGTH: 17
299 <212> TYPE: DNA
300 <213> ORGANISM: Artificial Sequence
302 <220> FEATURE:
303 <223> OTHER INFORMATION: Chemically synthesized Primer to amplify SNP - 1.6 kb
305 <400> SEQUENCE: 9
306 ctcctaatac gcctcag 17
309 <210> SEQ ID NO: 10
310 <211> LENGTH: 16
311 <212> TYPE: DNA
312 <213> ORGANISM: Artificial Sequence
314 <220> FEATURE:
315 <223> OTHER INFORMATION: Chemically synthesized Primer to amplify SNP - 1.6 kb
317 <400> SEQUENCE: 10
318 ggaaaggcagc cgccctc 16
321 <210> SEQ ID NO: 11
322 <211> LENGTH: 30
323 <212> TYPE: DNA
324 <213> ORGANISM: Artificial Sequence
326 <220> FEATURE:
327 <223> OTHER INFORMATION: Chemically synthesized Primer to amplify SNP - 1.6 kb

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/538,922

DATE: 08/14/2006

TIME: 13:35:19

Input Set : A:\10-538,922 Sequence Listing.TXT

Output Set: N:\CRF4\08142006\J538922.raw